



Agenda



- **Persistent Conflict**
- **Enterprise Challenge**
- **Enterprise Complexities**
- **Enabling Transformation**
- **©** Conclusions







Era of Persistent Conflict





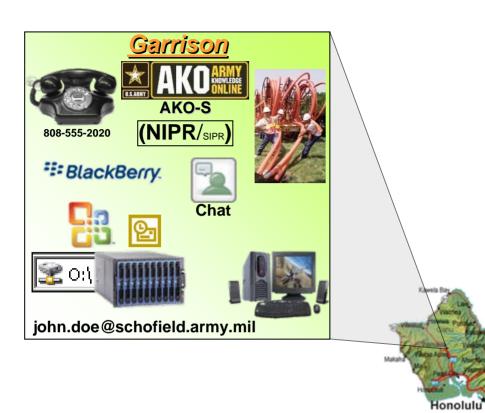
Protracted confrontation ... fueled by six important trends



A Soldier's Story













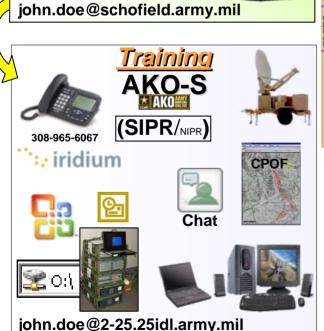


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(NIPR/SIPR)



901-786-1524



Chat

*** BlackBerry.





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A Soldier's Story

Deployed

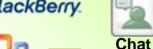


















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Ideal End-State

Universal E-Mail Address Universal File Storage One Telephone Number Standard Collaboration Tool Set

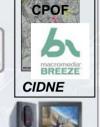












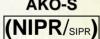


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Power Projection









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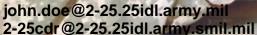
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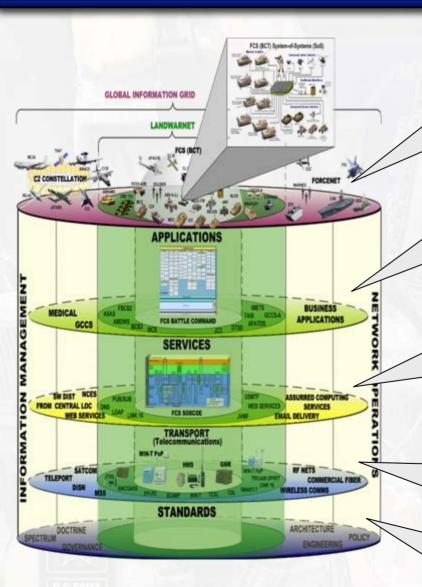
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Requirements Complexity





Platforms & Sensors:

C2V Platforms, MULE, ARV, Sensors, UAVs, DCGS, M1 Abrams, Apache, EFV, Cobras, AWACS, JSTARS, Space Radar, CVN, DDG, SSN

Applications:

Army Battle Command Systems (ABCS), FCS-BC, Net Enabled Command Capability (NECC), DCAS, GCCS, GCCS-A, ASAS, GCSS, FBCB2

Services:

SA, ISR, Collaboration, SOSCOE, Net-Centric Enterprise Services (NCES), Army Knowledge Online (AKO), Defense Knowledge Online (DKO)

Transport:

GIG Backbone, I3MP Backbone, APC, RHN, NSC, Trojan Spirit, JNN, SWAN, WIN-T, DSCS, WGS, MUOS, TSAT, STEP, Teleport, JTRS, SINCGARS

Standards:

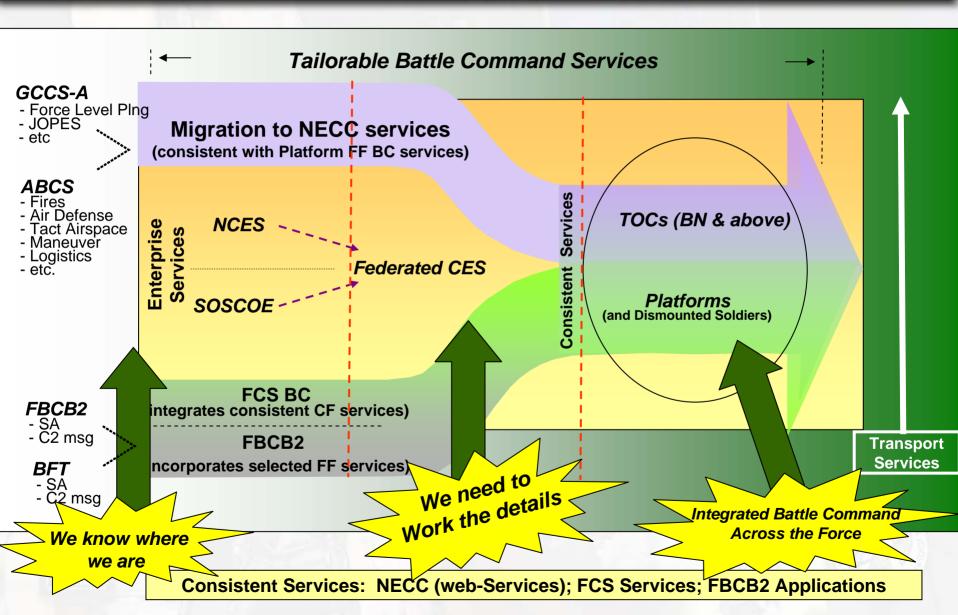
IPv6/IPv4, SOA, XML, WSDL, XMPP, SOAP, UDDI, RDF, NIST, SAML, OASIS, WNW, CDL, IEEE



Unified Battle Command Complexity



... Consistent services supporting alternative Network environments





C4/IT Funding Complexity ... Across 6 PEGs (FY 2009 Budget)



Organizing PEG: \$449M

- Army Knowledge Online (AKO)
- Network Information Services Agency-Pentagon (NISA-P)

Sustaining PEG: \$217M

- Global Combat **Service Support- Army** (GCSS-A)
- Deployment Automation

Equipping PEG: \$6.0B

- MILSATCOM
- Warfighter Information **Network- Tactical (WIN-T)**
- Joint Tactical Radio System (JTRS)
- Force 21 Battle Command **Brigade & Below (FBCB2)**
- Army Battlefield Command System (ABCS)

Training PEG: \$640M

- Distance Learning
- NETCOM

Total Army Funding

\$139B

C4/IT Funding

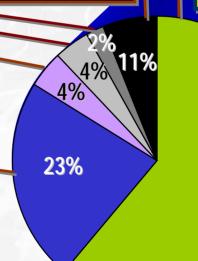
- \$9,97B
- 7.2% of Army TOA

Manning PEG: \$375M

- **Army Recruiter Information System** (ARIS)
- **HRC Automation**
- **MEPCOM Automation**

Installation PEG: \$2.25B

- Installation Information Infrastructure **Modernization Plan (I3MP)**
- Reserve Component Automation System (RCAS)
- Long Haul (NIPR, SIPR & DSN)
- Base Support
- Information Assurance (IA)



61%



Enabling Transformation



Capability-driven Architecture and Analysis

Collaboration Strategy

Capability/Mission Context

Programmed Service Solutions

Federated SOE Roadmap

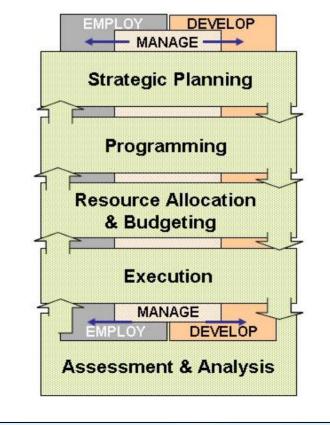
Shared Situational Analysis

Analytical Support for all

Stakeholders

Govern our Transformation to a SOE

Enhancing Analysis for Transforming to a Services-Oriented Enterprise



Net-Centric Data Strategy

Federated Governance Model

Harmonization & Integration

Enterprise CIO Support

Semantic Strategy

Cross-domain Alignment

New Collaboration Paradigm

Support Analysis Needs



Collaborating on the Details



Step 1
Mission
stakeholders
w/capability
needs define
context

Goals

Customer/Stakeholder Context

Line of Business (JCAs, UJTLs)

Performance Targets (MOE/MOP)

Goals

Customer/Stakeholder Context

Line of Business (JCAs, UJTLs)

Performance Targets (MOE/MOP)

Capability - to - Service

Step 2
Program
stakeholders
describe
service
solutions that
fulfill capabili

Service Type

Harmonization / Integration of Data

Data

Data

Service Type

Data

Service Type

Step 3:

Current Programmed Solutions - to - SOE Roadmap

All stakeholders plan transition to target service architecture

Service Type

Technologies

Data

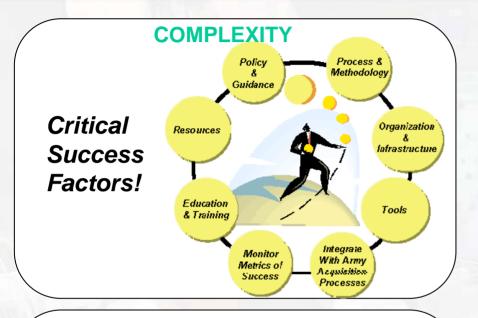
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America's Army: The Strength of the Nation - Army Strong



Net-Centric Data Strategy





GOVERNANCE

- Data Czar and Chief Data Officers
- Army Data WG July 07
- CIO/G6 Published Data Strategy
 Guidance Nov. 07
- Data Management Maturity
 Assessment Process On going

MITIGATION

- Established Data Center of Excellence
- Developed Army Data Reference
 Model and Data Reference
 Architecture
- Identification of Authoritative
 Army Data Sources On going

Harmonization/Integration of Data

- Communities of Interest
- Information Exchange Standard Development Guidance
- Data Validation Guidance/ Process
- Leveraging SOA Data Services principles



Common Semantics (Meaning)



aligns and enables diverse community language

AMC Equipment Types (10)	
Tracks	
Wheels	
Trailers	
MHE	
Weapons	
NVDs	
Communications	
NBC	
Aircraft	
Generators	

Collaborative Ontology Development

Ontology

G3 Warfighting Functions (6)	
Intelligence	
Movement & Maneuver	
Fire Support	
Protection	
Sustainment	
Command & Control	

ASA(ALT) ERC	Categories (7)
Aviation	
Commu	nicate
Force Pro	otection
Mov	ve .
Sho	ot
Stril	ke
Sust	ain

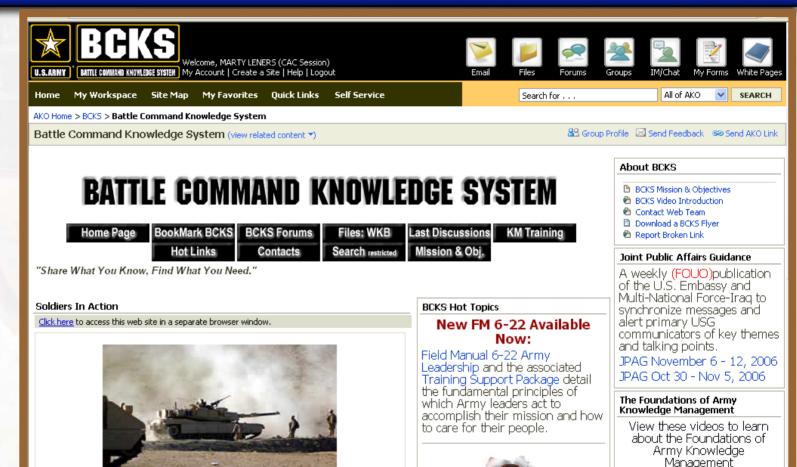
rather than requiring a single set of terms

G8/G4 Equipping Capability (14)	
Air Defense	
Aviation	
Battle Command	
C3 Capabilities	
Force Protection	
Intel	
Log Auto	
Maneuver	
Medical	
Mobility	
QM/OD	
Soldier	
Strike	
Transportation	



Shared Situational Awareness





AKO User Name &

AKO Password

Log On and Share your ideas and opinions with Fellow Soldiers





How We Can Make It Better



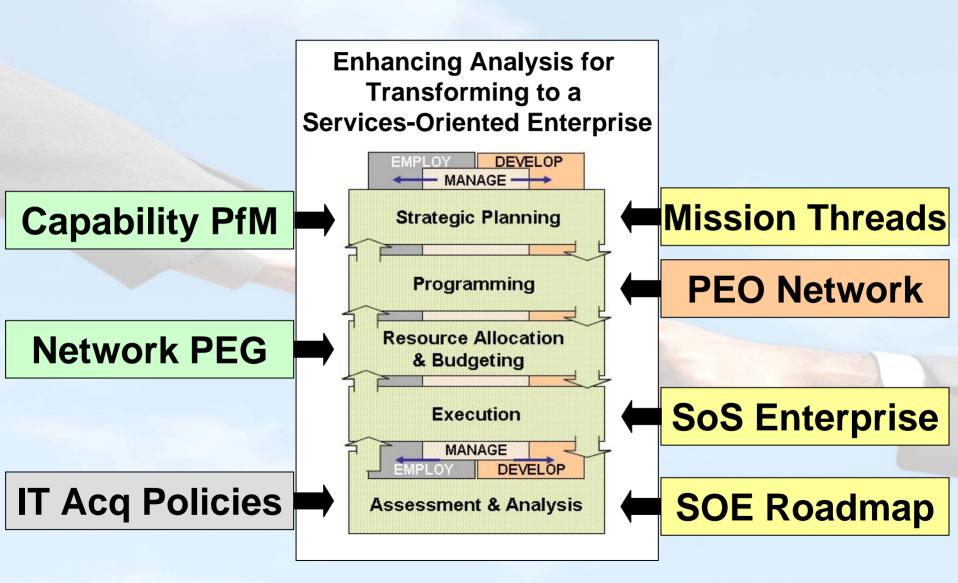
Requirements

- System-of-System Architecture
- Service-Oriented Architecture
- Battle Command Convergence Strategy
- Net-Centric Data Strategy
- ◆Acquisition → PEO Networks
 - PEO C3T
 - •PEO EIS
 - FCS Battle Command
- ❖ Resources → Network PEG
- ❖Policy → Acquiring IT "Not like a <u>tank</u>"



Enabling a Services-Oriented Enterprise







Conclusions!!!









Enabling a Services-Oriented Enterprise

...Requirements, Acquisition, Resources & Policy

Shared Situational Awareness
...Bottom Line to Joint Warfighter





